

DATKHES, I.I.

An efficient method. Bauka i zhisn' 23 no.5:48 '56. (MLRA 9:8)
(Metals--Heat treatment)

DAYKHES, I.I.

Sheet piling used in hydraulic structures. Nauka i shisn' 23 no.7:51 Jl '56. (MIRA 9'9) (Steel, Structural) (Sheet piling)

DAYKHES, I.I.

Self-fluxing agglemerate. Nauka i shism' 23 ne.9:50 '56. (MLHA 9:10) (Smelting)

Vacuum metallurgy. Nauka i zhizn' 24 no.3:53 Mr '57.

(MLRA 10:5)

(Metallurgy) (Vacuum)

DAYKHES, M.A., inzh.

Method of mounting the main engines with little deformation of the foundation frame and the crankshaft. Sudostroenie 29 no.11:43-48 N 163. (MIRA 16:12)

DAYKHES, Maksim Timofeyevich

[Why healthy children lose their appetites] Pochemu zdorovye deti mogut poteriat' appetit] Moskva, Uchpedgiz, 1957. 39 p.
(MIRA 13:7)
(Appetite)

DAYKHES, Make in Timof eyevich, dotsent; CHERKASOV, A.V., red.; LOKHMATYY, Ye.G., tekhn.red.

[Prophylaxis and treatment of disturbances of the appetite in children] Profilaktika i lechenie rasstroistv appetita u detei.

Kiev, Gos.med.isd-vo USSR, 1957. 69 p. (MIRA 11:1)

(APPETITE) (GEILDREN-DISBASES)

DAYKHRS, M.T., dotsent

Further increasing the effectiveness of the work of consultants in pediatire divisions of a polyclinical department. Pediatriia 39 no.1:22-23 [61. (MIRA 14:1) (PEDIATRICS) (HESPITALS—OUTPATIENT SERVICE)

DAYKHIN, M.Ya.; MAKATUN, V.N.; SILIN, V.A.; MODLIN, A.G.

New method for the control of the impurity of spinnerets. Khim. volok. no.2:58-59 '65. (MIRA 18:6)

1. Mogilevskiy zavod im. Kuybysheva.

DAYKHIN, Mayaa, SILIN, V.A., KIADNITSKAYA, L.P.

Device for simplified quality control of viscose. Khim. volok. no.5:69-70 '65. (MIRA 18:10)

1. Mogilevskiy zavod iskusstvennogo volokna.

DATINO /S/II, V. A.

"Vasographic Study of the Condition of Ridney Vessels and Their Blood Accumulation Norwelly and in Hypertension." Cand Med Sci, Sentral Inst for the Edvance: Training of Physicians, 2 Mar 54. Dissertation (Vechernyaya Poskva Moscov, 19 Feb 54)

SO: SUEL 186, 19 Aug 1954

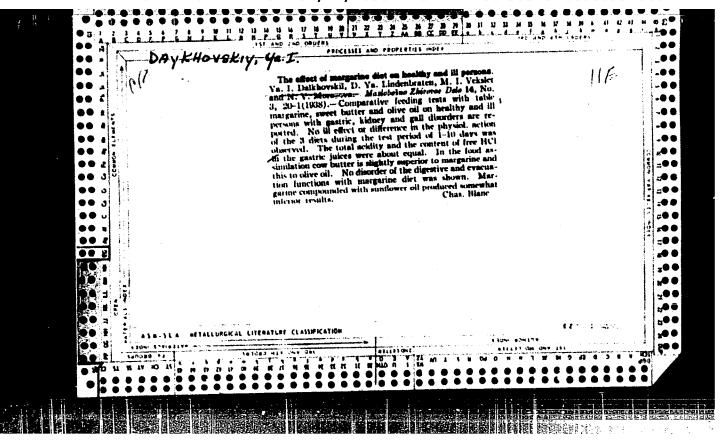
DAYKHOVSKIY, B.Ya., kand.med.nauk

90001,100

Results of the introduction of minor mechanization in the therapeutic department. Med.sestra 21 no.10:50-52 0 162.

1. Iz Moskovskoy gorodskoy klinicheskoy ordena Lenina bol'nitsy imeni S.P.Botkina.

(HOSPITALS_FURNITURE, EQUIPMENT, ETC.)



DAYKHCVSKIY, Ya. I.

PA 65/49T74

Stomach, Innervation Mar 49

"Review of L. Z. Frank-Kamenetskiy's, 'Motor Innervation of the Stomach and Duodenum,'"
Prof Ya. I. Daykhovskiy, 12 pp

"Klin Med" No 3

This branch of innervation was little studied until now. Book gives results of surgical and K-ray treatments and experiments, and new sethods of treating ulcers based on current knowledge of the vegetative system. It will interest surgeons and therapists.

65/49174

DAYKHOVSKIY, Ya.I., prof. (Moskva)

Roman Al'bertovich Kuriia; on the 15th anniversary of his death.

Kaz.med.zhur. 40 no.5:99-101 S-0 '59. (MIRA 13:7)

(LURIIA, ROMAN AL'BERTOVICH, 1874-1944)

L 5h03-66 EWT(1)/EPF(n)-2/T/EED(b)-3/EWA(h)/ETC(m) LJP(c) WW/AT

ACC NR: AP5027397 SOURCE CODE: UR/0181/65/007/011/3218/3226

AUTHOR: Gurevich, V. L.; Daykhtman, B. D. 4454

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodníkov

AN SSSR)

TITLE: Theory of sonic emission in piezoelectric semiconductors

SOURCE: Fizika tverdogo tela, v. 7, no. 11, 1965, 3218-3226

TOPIC TAGS: sound, semiconductor theory, piezoelectric effect

ABSTRACT: The paper is a direct continuation of a previous article by these authors (V. L. Gurevich, B. D. Daykhtman, ZhETF, 49, 960, 1965). A doped semiconductor with current carriers of a single sign assumed to be electrons is considered, or alternatively a photoconductor with a short hole lifetime, e. g. CdS. A theory is proposed to explain the mechanism responsible for generation of standing sound waves of low intensity in piezoelectric semiconductors in a steady electric field. Orig. art. has: 48 formulas.

SUB UPDE: SS/

SUBM DATE: 03May65/

ORIG REF: 008/

OTH REF: 006

EVY. Card 1/1

· Day Kin, V. D.

USSR/Plant Physiology - General Problems.

I.

Abs Jour

: Ref Zhur - Biol., No 18, 1958, 81959

Author

: Daykin, V.P.

Inst

: Sc. Research Institute of Agriculture, Extreme North

Title

: Work on Plant Physiology in the Yakutsk ASSR

Orig Pub

: Byul. nauchno-tekhn. inform. N.-I. in-ta s.-kh. Krayn.

Severa, 1957, No 3, 37-39

Abstract

: Physiological research is devoted to the study of the water regimen, nourishment and metabolism of local plants. No substantial deviations in the water balance of Yakutian plants were noticed, except for a certain excess of water outflow over inflow. The soil temperature, which was 6-80, prevented the synthesis of amino acids and hampered the utilization of N. The presence of K in the nutrient solution brought about a decrease

Card 1/2

USSR/Plant Physiology - General Problems.

I.

Abs Jour : Ref Zhur - Biol., No 18, 1953, 81959

of the number of amino acids in roots. -- B.E.

Kravtsova

Card 2/2

-1-

DAYLINONENE, YS.

DAYLIDONENE, Ya.S. [Dailidoniene I.S.]

Epidemiology of tuberculosis among machin-tractor station and state farm workers in districts of Lithuania [with summary in French]. Probl.tub. 35 no.4:7-9 157. (MIRA 10:8)

1. Iz Idtovskogo respublikanskogo tuberkuleznogo dispansera (glavnyy vrach Ya.S.Daylidonene, nauchnyy rukovoditel! - kandidet meditsinskikh nauk Yu.L.Gamperis)

(TUBERCULOSIS, epidemiol.

in Lithuania, among rural power agriculture & state farm workers (Rus))
(RURAL CONDITIONS

in Id thuania, tuberc. epidemiol. emong power agriculture & state farm workers (Rus))

DAYLIS, I.L.

FD-1534

USSR/Medicine - Education

Card 1/1 : Pub 102-5/14

Author : *Daylis, I. L., Professor

Title : On teaching "Organization of Public Health Service" in medical

institutes

Periodical: Sov. zdrav., 6, 26-28, Nov-Dec 1954

Abstract : A few suggestions are offered here as to how chairs in organization of

public health service in the medical universities of the USSR can put their subject over more effectively. It is imperative that medical school students acquire a clear picture of organizational set up and theoretical basis of the Soviet public health system, its development and achievements. No doubt must exist as to superiority of Russian scientists in every branch of medicine; reactionary theories and

practices existing in capitalist countries must be unmasked

Institution: (*Head) Chair of Organization of Public Health Service, Odessa Medical

Institute

Submitted :

DAYLYUDENKO, K.A.

Experience in operating an automatic telegraph station with "Liman" route-code commutation. Vest. sviazi 23 no.10:17-19 0 '63. (MIRA 16:12)

1. Nachal'nik tsekha kodovogo avtomaticheskogo tranzita Moskovskogo telegrafa.

DAYN, A.

Hidden potentialities for reducing construction costs. Fin. SER
15 no.11:33-36 N*54. (MIRA 8:2)
(Construction industry—Costs)

DAYN, A.I., kandidat ekonomicheskizh nauk.

Ways of lowering the cost of non-mineral building materials. Mekh. trud.rab. 9 no.2:23-25 F *55. (MIRA 8:4) (Building materials)

Potentialities for reducing the cost of reinforced concrete units and parts. Fin.SSSR 16 no.11:74-77 H '55. (MLRA 9:1) (Concrete)

SOROKER, V.I., doktor tekhnicheskikh nauk; DAYN, A.I., kandidat ekonomicheskikh nauk; DOVZHIK, V.G., inzhener.

Screened crushed-stone concrete for reinforced concrete products plants.

Bet.i shel.-bet. no.9:320-323 8 '56. (MLRA 9:10)

(Reinforced concrete)

DAYN, A.I., dotsent.

Further tasks in developing the nonmineral building materials industry. Mekh.trud.rab. 10 no.5:30-32 My *56. (MLRA 9:8) (Quarries and quarrying)

DAYN, A.

Important means for reducing building material costs. Fin. SSSR 17 no.11:55-61 N 56. (MLRA 9:12)

(Building materials—Costs)

DAYN, A.

Sources for decreasing production costs of rock products. Stroi.
mat.3 no.2:21-23 F 157. (MIRA 10:3)
(Quarries and quarrying)

DAYN, A., ekonomist

Development of an industrial base for construction in the Irkutsk

Economic Region. Stroi.mat. 3 no.11:22-23 N '57. (MIRA 10:12)

(Irkutsk Economic Region--Building materials industry)

DAYN, A.I., insh.; BORISOV-REHRIN, M.P., inzh.

Improve the production of rock, sand, and gravel used for building materials. Mekh.trud.rab. 11 no.8:30-33 Ag '57.

(MIRA 10:11)

(Building materials)

BORISOV-REBRIN, M.; DAYN, A.

Internal potentialities in the nonmetallic mineral industry. Fin. SSSR 20 no.4:37-42 Ap '59. (MIRA 12:6) (Building materials industry-Finance)

DAYN, A.I., dotsent; KACHEROVA, B.A., mladshiy nauchnyy sotrudnik;

BOLOTINA, N.B., starshiy inzh.; LOGINOV, P.F., inzh.

Ways to lower the net cost of stone, crushed stone, gravel, and sand for construction. Sbor. trud. NIIZHelezobetona no.3:147-158 '60. (MIRA 15:2) (Building stones) (Stone, Crushed) (Sand and gravel industry)

DAYN, A.I., kand.ekon.nauk

Potentials of enterprises of the Main Administration of the Building Materials Industry under the Executive Committee of the Mospow City Soviet of Working People's Deputies producing rock, sand and gravel for the construction industry. Sbor. trud. NIIZHelezobetona no.7:178-184 '62. (MIRA 16:1) (Crushed stone industry) (Sand and gravel industry)

DAYN, R.I., kand. tekhn. nauk

Wastes of rock products are a powerful source for increasing the production of aggregates. Stroi. mat. 9 no.10:10-11 0 '63. (MIRA 16:11)

DAYN, A.I., inzhener

Mcb le enterprises for rock products industry. Stroi. mat. 10 no.10:23-24 0 '64. (MIRA 18:2)

DAYN, B. Ya.

sde DAIN, B. Ya.

15(2) AUTHORS:

Matveyev, M. A., Dayn, E. P.

SOV/72-59-11-4/13

TITLE:

The Effect of Powdered Refractory Charge Components Upon the Melting Temperature and Quality of Glass With a High Zirconium

Content

PERIODICAL:

Steklo i keramika, 1959, Nr 11, pp 8-12 (USSR)

ABSTRACT:

The papers by I. D. Tykachinskiy, M. B. Romanovskiy, M. A. Matveyev, I. S. Koyfman, L. A. Grechanik, P. P. Budnikov, I. I. Nekrich (Footnote 1) were devoted to the investigation of soda-, soda-sulphate-, and borosilicate glasses. The present paper discusses the influence of dispersity of refractory stratum components, as well as entire charge, upon the melting temperature and quality

of the glass Ts-18, which has the following composition:

62.5% SiO,; 18% ZrO,; 12% Na,O; 2.5% K,O; 5% CaO . O. K. Botvinkin,

G. Ya. Ioffe, L. B. Krol', V. V. Tarasov, K. T. Bondarev (Footnote 2) report on its high chemical and thermal stability. The high refractory-oxide content accounts for the high melting point

(1500-1520°) of this glass. The introduction of powdered sand and

Card 1/2

zirconium into the charge is said to constitute an effective

The Effect of Powdered Refractory Charge Components SOV/72-59-11-4/16 Upon the Melting Temperature and Quality of Glass With a High Zirconium Content

method of lowering the melting point and improving the glass quality. This is described in detail. The degree of grinding of the material was determined by means of Tovarov's apparatus, grinding was carried out by the vibroplant Nr 3 (Fig 1). The fractional composition of the material was determined by means of a microscope and the apparatus designed by Figurovskiy. Tables 1 and 2 give a detailed description of the of the sand, tables 3 and 4 of that of zirconium. Table 5 and figures 2-4 present the grinding of the charge various conditions. Conclusions: The grinding of the entire zirconium-containing stratum is considered inexpedient, since soda and potash render the grinding of sand and zirconium difficult. Sand and zirconium should be added to the charge ground. Suitably, the sand should be ground vibrating plant Nr 3. There are 4 figures, 5 tables, and 2 Soviet references.

Card 2/2

<u>'</u>	14	DOTA, E.P
		L 53736-65 EFF(c)/EFR/BPA(s)-2/EWT(m)/EWP(1)/EWP(b)/EWP(e) Pq-4/Pr-4/Ps-4/Pt-7 WM/WH
•		ACCESSION NR: AP5015562 UR/0286/65/000/008/0119/0219 666.189.211
		AUTHOR: Shkol'nikov, Ya. A.; Polik, B. M.; Karakhanidi, N. G.; Ivanov, P. K.; Hober, F. I.; Ulybyshev, V. V.; Alen'kin, A. T.; Bugrova, N. N.; Simakov, D. P.; Shchipin, I. Ye.; Gur'yeva, Yu. N.; Yefimova, M. I.; Rechayeva, Ye. S.; Yesilkina, K. M.; Ivanova, A. I.; Dayn, E. P.; Nabatov, V. G.; Novoyevskaya, Ye. A.; Kukin, Ye. B.; Balashov, V. N.; Gamza, L. B.
		TITLE: Glass for glass fibers. 6Class 32, No. 170369 15 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 119
		TOPIC TAGE: glass, glass fiber
		ABSTRACT: An Author Certificate has been issued for a glass suitable for making glass fibers. To increase chemical durability, to prevent corrosion of alloys of aluminum and other light metals, and to improve processability, the glass is formulated to contain: 58-63% 810 ₂ , 2-4% B ₂ 0 ₃ , 5-8% Al ₂ 0 ₃ , 0.5-1.5% F ₂ 0 ₃ , 4-6% ZrO ₂ , 6-8% CaO, 12-13% Ha ₂ O, and 1.5-2% K ₂ O. [SM]
•		ASSOCIATION: none
•	; 	

15(2)

AUTHORS:

Sivchikova, M. G., Dayn, F. L.

SOV/72-59-7-8/19

TITLE:

Glazes for Faience Free From Boron and Lead (Bezbornyye

bessvintsovyye glazuri dlya fayansa)

PERIODICAL:

Steklo i keramika, 1959, Nr 7, pp 22-26 (USSR)

ABSTRACT:

Yu. G. Shteynberg and L. V. Romanchuk (GIKI) elaborated a boronstrontium-glaze free from lead for faience with a burning temperature

of from 1040 to 1200° which was introduced beside others in the Konakovo Faience Works imeni Kalinina and in the Budyanskiy Faience Works in the Ukraine. The same authors work at a glaze free from boron with a burning temperature of from 1100 to 1250° by using zine exide and lithium compounds as melt. I. Kalzing and F. Viveger used fluorides and zine exide for this purpose. The authors of this paper used fluorides, zine exide, strontium compounds and titanium

dioxide as boron substitute. As initial material of their

investigations of glazes free from boron and lead yeliseyevskiy pegmatite, quartz, prosyanovskiy kaolin, belgorodskiy chalk, dolomite, zinc oxide, strontium carbonate, titanium dioxide and fluorides were

used. The chemical composition of the materials is given in table 1. As basis they took the boron-strontium-faience glaze being used in

Card 1/2

Glazes for Faience Free From Boron and Lead

SOV/72-59-7-8/19

the works of the UkrSSR and the molecular formula of them is given. The layer was fritted at a temperature of from 1300 to 1320° in the electric laboratory furnace. The compositions of the frits are given in tables 2 and 3. The quality of the glazes may be seen from table 4. In the figure the thermal expansion of the ceramic bodies of some types of glazes is represented. The glaze hardness was determined by means of the apparatus PMT-3. The chemical stability of the frits and glazes was determined according to the method of the Glass Institute. The crystallizability of the glazes was investigated by means of the polythermal method in a gradient furnace whereby the study of L. M. Blyumen is mentioned. The microstructure of the glazes was investigated by means of ground sections by chief engineer O. F. Yamak (Footnote 1). Conclusions. On the basis of fluorine compounds glazes free from boron and lead were obtained. Their quality was found not to be inferior to boron glazes for faience. The molecular formula of these glazes is given. The new glazes are tested under operational conditions and can be recommended for glazing faience household products. There are 1 figure and 4 tables.

Card 2/2

SEN', Z.P.; SIVCHIKOVA, M.G.; LUCHKA, M.Kh.; BELYAKOVA, I.N.; YARMAK, O.F.; DAYN, F.L.

Possibility of lowering the temperature of porcelain firing and of its replacement in drying under high temperatures. Stek.i ker. 19 no.9:21-24 S'62. (MIRA 15:9) (Porcelain)

SIVCHIKOVA, M.G. [Syvchykova, N.H.], kand. tekhn. nauk; DAYH, F.L. STESHNA, A.G. [Stesina, A.H.].

Physicochemical properties of household porcelain produced by the factories of the Kiev Economic Council. Leh. prom. no.4:80-83 0-D 164 (MINA 18:1)

SIVCHIKOVA, M.G. [Syvchykova, M.H.], kand. tekhn. nauk; DAYN, F.L.; GULAY, O.S. [Hulai, O.S.]

Improving the quality of maiolica goods. Leh. prom. no.1:21-22 Ja-Mr 165. (MIRA 18:4)

SIVCHIKOVA, M.G. [Syvchykova, M.H.], kand. tekhn. nauk; DAYN, F.L.; GULAY, O.S. [Hulai, O.S.]

Effect of the glaze coating on porcelain whiteness. Leh. prom. no.4:22-27 0-D '65. (MIRA 19:1)

SIVCHIKOVA, M.G. [Syvchykova, M.H.], kand.tekhn.nauk; DAYN, F.L.;
KAGANOVA, I.V. [Kahanova, I.V.]

Color glazes for the decoration of fine stoneware. Leh.prom. no.1:60-63 Ja-Mr '64. (MIRA 19:1)

DAYNEKO, Pilipp Petrovich [Daineka, P.P.]; UKSUSOV, D. [Uksusau, D.], red.; SLAVIANIH, I., tekhn.red.

[Our most important potential] Wash haloumy reserv. Minsk,
Dziarzh.vyd-va BSSR, Red.masava-palit.lit-ry, 1960. 40 p.
(MIRA 14:3)

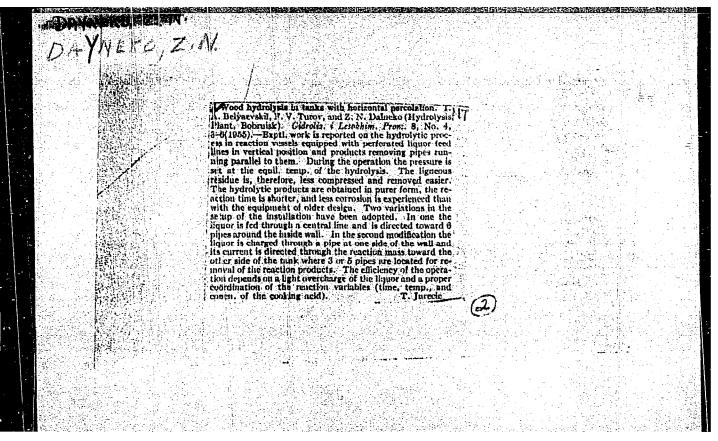
 Sekretar' Mostovskogo rayonnogo komiteta Kommunisticheskoy partii Belorussii (for Dayneko).
 (Mosty District-Agricultural administration)

MEDVEDEVA, Ye. A., kand. med. nauk; DAYNEKO, L. N., mlad. nauch. sotr; ZHUKOV, V. N., mlad. nauch. sotr.; BELYAVISEVA, I. S., mlad. nauch. sotr.

Significance of the luminescence method in the diagnosis of some dermatoses. Vest. derm. i ven. no.6:17-20 '61. (MIRA 15:4)

1. Iz Ufimskogo kozhno-venerologicheskogo instituta (dir. - starshiy nauchnyy sotrudnik P. N. Shishkin; nauchnyy rukovoditel - starshiy nauchnyy sotrudnik G. E. Shinskiy)

(SKIN_DISEASES) (LUMINESCENCE)



DAYNEKO, Z.N.; LUK'YANOV, M.A.; LIVSHITS, N.Ya.

Return valves made from seamless steel pipes for steam lines. Gidrolis. i lesokhim. prom. 9 no.7:24 156. (MIRA 12:3)

1. Bobruyskiy godroliznyy savod.
(Valves)

DAYNEKO, Z.N.; GORELIK, B.A.; BEL'KOVA, Ye.A.; YARESHCHENKO, A.M.

Mighten the work of the chief cooker operator. Gidroliz. i lesokhim. prom. 10 no.8:21-22 '57.

1. Bobruyskiy gidroliznyy zavod. (Hydrolysis)

GESHTOVT, Yu.N., aspirant; MAKAROV, V.S.; YEPANESHENKOV, I.B.; DAYNICHENKO, G.S., aspirant; GRYAZEV, I.I.

Economic effectiveness of the use of herbicides. Zashch. rast. ot vred. i bol. 9 no.2:9-11, 32 '64. (MIRA 17:6)

1. Kishinevskiy sel'skokhozyaystvennyy institut (for Daynichenko).
2. Nachal'nik Ul'yahovskoy stantsii zashchity rasteniy (for Grazev). 3. Severnyy filial Kazakhskogo instituta zashchity rasteniy, Kokchetav (for Geshtovt). 4. Starshiy agronom po zashchite rasteniy Nerchinskogo proizvodstvennogo upravleniya, Chitinskaya obl. (for Makrov). 5. Glavnyy agronom po zashchite rasteniy Gorodetskogo proizvodstvennogo upravleniya, Gor'kovskaya obl. (for Yepaneshenkov).

KAL'FA, S.F., prof.; DAYNOVSKAYA, S.B.

Myopia and toxoplasmosis. Oft. zhur. 16 no.8:455-460 '61.

(MIRA 15:4)

1. Iz kafedry glaznykh bolezney (zav. - prof. S.F.Kal'fa) Odesskogo meditsinskogo instituta imeni Pirogova.

(MYOPIA) (TOXOPLASMOSIS)

DAYNOVSKIY, Anatoliy Boleslavovich; KUKLIN, Metislav Nikolayovich;
DITKOVSKIY, A.S., red.; SIDEL'NIKOVA, L.A., red.izd-va; BACHU-RINA, A.M., tekhn.red.

[Over-all utilization of wood in industry] Komplekanoe ispol-zovanie drevesiny v promyshlennosti. Moskva, Goslesbumizdat. 1959. 78 p. (MIRA 13:2)

(Wood-using industries)

- 1. DAYNOVSKIY, A. V., Candidate
- 2. USSR (600)
- 4. Lumber Transportation
- 7. On the economic efficiency of trasporting logs in tree lengths, Les. prom., 13, no.5, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

Daynyak, a.N.

KHACHATUR'YAN, G.Kh.; DAYNYAK, A.N.; REZNIKOV, Ye.K.

Penicillin dermatitis. Sovet. med. 16 no. 6:11-13 June 1952. (CLML 22:4)

1. Of the Clinic for Skin Diseases (Director -- Prof. F. W. Grincher, Honored Worker in Science), Second Moscow Medical Institute imeni I. V. Stalin and of the 8th Venereological Dispensary.

DAYNYAK, L. B.

"Clinical Observation, Prophylaxis, and Treatment of Common Forms of Nonspecific Acute Laryngitis." Cand Med Sci, Second Moscow State Medical Inst imeni I. V. Stalin, 20 Sep 54. (VM, 1 Sep 54)

SO: Sum 432, 29 Mar 55

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000309910007-2 DAYNYAK, L.B. DAYNYAK, L.B., aspirant kesult of streptomycin therapy in edematous and phlegmous laryngitis. Vest. oto-rin. 16 no.3:56-60 My-Je 154. (MIRA 7:7) 1. Is kliniki bolesney uda, gorla i nosa (dir. deystvätel'nyy chlen Akademii meditsinskikh nauk SSSR prof. B.S. Preobrashenskiy) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina. (LARYNGITIS, therapy, *streptomycin) (STREPTONICIN, therapeutic use, *laryngitis)

DAYNYAK, L.B., kandidat meditsinskikh nauk

Etiology, clinical espects and prevention of edematous infiltration and phlegmonous (abscessing) laryngitis. Vest.oto-rin 17 no.4:30-35 J1-Ag '55. (MLRA 8:10)

1. Is kliniki bolesney ukha, gorla, nosa (dir.-deystvitel'nyy chlen Akademii meditsinskikh nauk SSSE prof. B.S. Preobrashenskiy) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta imeni I.V.Stalina.

(LARYMOITIS, edematous, infiltrable & phlegmonous)

DAYHYAK, L.B., kand.med.nauk, NAZAROVA, G.F., kand.med.nauk

First plenary session of the All-Hussian Medical Society of Otolaryngologists. Vest.oto.-rin. 20 no.3:120-123 My-Je '58 (MIRA 11:6) (OTORHINOLARYNGOLOGY)

MYNYAK, L.B., kand. med. nauk.

Ethyzine in the treatment of vasomotor and allergic rhinitis. Vest. otorin.
21 no.2:38-41 Mr-Ap '59.

1. Iz kliniki bolezney ukha, gorla i nosa (dir. - prof. B.S. Preobrazhenskiy)
lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta.

(HAY FEVER, ther.

10-(2-dicethylaminoethyl)-phenothiazine (Rus))

(PHENOTHIAZINE, rel. cpds.

10-(2-dimethylaminecthyl)-phenothiazine in hay fever (Rus))

DAYNYAK, L.B., kand.med.nauk; MEL'NIKOVA, N.S., inzh.

New method for determining the patency of the masel passages. Vest.otorin. 22 no.2:90-93 Mr-Ap *60. (MIRA 13:12)

1. Is kliniki bolesney ukha, gorla i nosa (sav. - prof.B.S. Preobrashenskiy) lechebnogo fakul'teta II Moskovskogo meditsinskogo instituta i laboratorii gasovykh meditsinskikh priborov i apparatov (rukovoditel' - kand.tekhn.nauk A.S.Perel'mutr) Vassoyuznogo nauchno-issledovatel'skogo instituta meditsinskogo instrumentariya i oborudovaniya.

(NOSE) (OTORHINOLARYNGOLOGY equip. & supplies)

DAYNYAK, L. B., kand. med. nauk

Use of prednisone in the treatment of vasomotor and allergic rhinitis. Vest. otorin. no.5:37-42 '61. (MIRA 14:12)

1. Iz kliniki bolezney ukha, gorla i nosa (zav. - prof. B. S. Preobrazhenskiy) II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova.

(NOSE_DISEASES) (PREGNADIENETRIONE)

DAYNYAK, L.B., kand.med.nauk

Mechanism of the action of acupuncture and its effectiveness in treating various forms of vasomotor rhinitis. Vest.otorin. no.5:16-21 162. (MIRA 15:9)

1. Iz kafedry bolezney ukha, nosa i gerla (zav. - prof. B.S.
Preobrazhenskiy) lechebnogo fakuliteta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(NOSE--DISEASES) (ACUPUNCTURE)

DAYNYAK, L.B., kand. med. nauk

Clinical aspects and preve tion of vasomotor rhinitis. Sov. med. 26 no.11:109-113 Nº62 (MIRA 17:3)

1. Iz kliniki bolezney ukha, nosa i gorla (dir. - deystvitel - nyy chlen AMN SSSR prof. B.S. Preobrazhenskiy) II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.

DAYNYAK, L.B., kand. med. nauk

Vascular reactivity in patients with vasomotor rhinitis. Vest. otorin. no.1:42-50 163. (MIRA 16:9)

1. Iz kliniki bolezney ukha, nosa i gorla (direktor- prof. B.S. Preobrazhenskiy) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova. (NOSE-DISEASES) (NERVOUS SYSTEM, VASOMOTOR-DISEASES)

PETROCHENKO, P.F.; SHAPIRO, I.I.; LUR'YE, G.B., prof.; DAYON, A.Ye., inzh.; ZAKHARKIN, V.I., inzh.; MAYOROVA, A.V., inzh.; FELIKSON, H.I., inzh.; FILIPPOVA, L.A., inzh.; GVOZDEVA, A.N., inzh.; MODEL', B.I. tekhn.red.

> [General norms for cutting conditions and time in the machinery industry for technical normalization of machining on grinding machines; large-lot and mass production] Obshchemshinostroitel'nye normativy rezhimov rezaniia i vremeni dlia tekhnicheskogo normirovanija rabot na shlifoval'nykh stankakh; krupnoserijnoe i massovoe proizvodstvo. Moskva, Gos.nauchno-tekhn.izd-vo mashino-(MIRA 13:1) stroit.lit-ry, 1959. 359 p.

> 1. Moscow. Nauchno-issledovatel skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Glavnyy inzhener TSentral nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Petrochenko). 3. Zaveduyushchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issled.institute truda (for Shapiro). 4. Sotrudniki TSentral nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Dayon, Zakharkin, Mayorova, Felikson, Filippova, Gvozdeva).

(Grinding and polishing)

PETROCHENKO, P.F.; SHAPIRO, I.I.; LUR'YE, G.B., prof.; DAYON, A.Ye., inzh.; ZAKHARKIN, Y.I.; inzh.; MAYOROVA, A.V., inzh.; FILIPPOVA, L.A., inzh.; GVOZDEVA, A.N., inzh.; DOERITSYHA, R.I., tekhn.red.

[General engineering time norms for the technical standardization of machining processes on grinding machines; small-lot and piece production] Obshchemashinostroitel'nye normativy vremeni dlia tekhnicheskogo normirovaniia rabot na shlifoval'nykh stankakh; melkoseriinoe i edinichnoe proizvodstvo. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry, 1960. 38 p.

(MIRA 14:1)

l. Moscow. Nauchno-issledovatel'skiy institut truda. TSentral'noye byuro promyshlennykh normativov po trudu. 2. Glavnyy inzhener TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Petrochenko). 3. Zaveduyu-shchiy otdelom mashinostroyeniya TSentral'nogo byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institute truda (for Shapiro). 4. TSentral'noye byuro promyshlennykh normativov po trudu pri Nauchno-issledovatel'skom institut truda (for Dayon, Zakharkin, Mayorova, Felikson, Filippova, Gvosdeva).

(Grinding and polishing)

VENGLINSKIY, V.V.; DENISENKO, K.V.; SOTSKOV, A.A.; SHPIGEL', A.M.; GCRDON, Kh.I., inzh., retsenzent; SHAKHNAZAROV, M.M., retsenzent; DAYON, A.Ye., inzh., red.; PETUKHOVA, G.N., red. izd-va; TIKHANOV, A.Ya., tekhn. red.

[Establishing technical norms in the instrument industry]
Tekhnicheskoe normirovanie truda v priborostroenii; spravochnoe posobie. Moskva, Mashgiz, 1962. 511 p.

(MIRA 15:9)
(Instrument industry—Production standards)

DAYON, M. (i)

USSR/Huclear Physics - Dosmic Radiation Ruclear Physics - Particles Jun 48

"Spectrum of Varitron Hass at 3,250 Meters Above Sea Level," A. Alikhanyan, Corr Mem, Acad Sci USSR; A. Vaysenberg, V. Kharitonov, H. Dayon, Inst of Phys Problems, Acad Sci USSR, and Phys Inst, Acad Sci Armenian SSR, 4 pp

"Dok Ak Nauk SSSR" Vol LX, No 9

Investigation on subject began in 1946 in Cosmic Ray Laboratory on Mount Alages.

Results published in various journals, including Vest Ak Rauk SSSR, No 5, 1947.

(See Abstract 54169). Authors discovered particles intermediate between measurons and protons, calling them varitrons because they can be either positive or perative, work largest of particles of particles of particles of particles which passed through 0.8-cm lead sheet but were absorbed in 1.05 cm lead sheet. Consist of a series of well defined maxima and vious hypotheses on ionization of particles. Submitted 29 Apr 48.

PA 6/49791

ALIKHANYAN, A. I.; VAYSENBERG, A.; DAION, M.; KHARIONOV, V.; KONSTANTINOV, A. DAYON, M.

"Varitrons in rigid component of cosmic rays," Reports of the AS USSR (New Series), Vol. 61, No. 1, 1948.

Previous article in Dokl. AN SSSR, 60, No.9, described spectrar of varitron masses obtained by examination of trajectroies of particles absorbed in lead filters installed above a series of counters. Present article discusses data obtained on the spectrum of the hard component. Submitted 18 May 1948

8/49T105

DAYON, M. I.

USSR/Nuclear Physics - Varitrons Nuclear Physics - Cosmic Rays

Aug 49

"Generation of Protons and Varitrons by the Neutral Component of Cosmic Rays," A. I. Alikhanyan, M. I. Dayon, V. M. Kharitonov, Inst of Phys Problems, Acad Sci USSR, Phys Inst, Acad Sci Armenian SSR, 8 pp

"Zhur Eksper i Teoret Fiz" Vol XIX, No 8, pp 739-48.

Observed generation of charged particles in lead caused by the neutral component at 3,250 meters. Magnetic analysis of the particles showed them to be protons and waritrons. Theorized that the protons appeared as a result of exchange of charge which the fast neutron undergoes in interaction with muclear particles. Submitted 20 Apr 49.

PA 61/49T80

DAYON, M. I.

USSR/Nuclear Physics - Cosmic Rays Varitrons Oct 49

"Existence of Light Varitrons," A. I. Alikhanyan, A. A. Konstantinov, V. M. Kharitonov, M. I. Dayon, Phys Inst, Acad Sci Armenian SSR, Inst Phys Problem Acad Sci USSR, 11 pp

"Zhur Eksper i Teoret Fiz" Vol XIX, No 10, pp 857-67.

Studied pulse (momentum) spectrum of cosmic particles in the interval 30-80 MeV/c. Showed that particles exist in this pulse (momentum) interval which have masses of 150, 100, 80, and, apparently, 50 times the electron mass. Submitted 28 Jun 49.

PA 150T59

DAION, M. I.			PA 27/49T84
DATON, M. T.	USSR/Nuclear Physics - Geiger Counters small compared to 1). Counters made we study ionizing ability of varitrons. 6 Ang 48.	Effectiveness a of a given counter denotes proof its registering relativistic particles. A tescope from k counters, each of which have a prof effectiveness a, will register relativistic particles with the probability ak, and particle with n times greater ionization ability than relativistic ones, with the probability nkak (UBSER/Muclear Physics - Geiger Counters Nuclear Physics - Elementary Particles "Self-Damping Geiger-Muller Counters With I "Probability of Effectiveness," M. I. Daion, "Dok Ak Nauk SSSR" Vol IXIV, No 3
27/49184	ers (Contd) Jan 49 were used to Submitted	denotes probability cles. A tele- ch have a probability celativistic and particles clity than clity nak (with na	Jan 49 rticles With Low Daion, 4 pp

DAYON, M.[1.]

USE/Mathematics - Hagnetic Spectrometer

1 Sep 51

"Concerning the New Magnetic Spectrometer," A. Alikhenyan, Corr New, Acad Sci USSR, A. Dadayan, H. Shostakovich, G. Akopyan, H. Dayon, Phys Inst, Acad Sci Armenian SSR

"Dok Ak Wank SSER" Vol LIXXX, No 1, pp 37-40

Describes the new magnetic spectrometer of large resolving puter, set up at an altitude of 3,200 maters above sea level and intended for measuring the spectra of pulses (momenta) and masses of particles composing counter rays. The central part of this device is the electromagnet weighing 76 tons, in the gap of which has been erected a market of small-diss counters that permit one to det the coordinates of the particles in space. The spectra of protons obtained show that the new magnetic spectrograph actually possesses large resolving power and snables one to distinguish particles with masses less than 1,000 mg of the protons. The results obtained indicate that the distribution trail of protons practically disappears for values of masses equal to 1,500 mg (the mass of the proton). During the entire time of the measurement on pulses (moments), never once was a trajectory of particles of neg sign recorded or abserved in the filters. Submitted is Jul ple

PA 221165

PA 56 no. 671:7719 (3)

DAYON, M. I.

USSR/Muclear Physics - Cosmic Neutrons

21 Oct 52

E. Dok Ak Newk 855R" Vol 86, No 6, pp 1093-1096

cles in the mass spectroscope (3,250 m elevation, 6,200 gauss, 9 cm of lead; A. Alikhanyan et alii, "Dok Ak Nauk SSSR" Vol 80, No 1, 37, 1951) is not accompanied by indication of the 0 series of neon Discusses case where registration of charged particounters (i.e., those on sides of lead block), which suggested subject generation. Rules out the

234189

G. A. Marikyan, Shostakovich, and Avdonyan. Submit-ted by Acad A. I. Alikhanov 23 Aug 52.

possibility of the ineffectiveness of the counters. Acknowledges aid of A. I. Alikhanyan, A. Dadayan,

234TB9

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000309910007-2"

		2
	5584	
	537.591.8 75772. Protons and mesons produced by cumic-ray	
. 1940 1940 1940 1940 <u>1940</u> . 1941 1950 1950 1950 1950 1950 1950 1950 1950 1950 1950 1950 1950 1950 1950 19	mesons. N. I. Dalon. Izv. Akad. Nauk SSSR (Sec. Piz.) 7, Ni. 1, 92-3 (1953) In Russian. The particles produced in a Pb screen 9 cm thick	하고 이 사람들로 가르면 작품이 하고, 함께 보고 있는 것 같다.
	eere studied at 32.0 m. The author deduces, among other conclusions, that mainly negative mesons are produced in Po by neutrons. [Francipion of produced in Po by neutrons.]	
	Watashin's summery (see Austr) and a contains a diagram of the apparatus used and a	
	histogram of the results.]	MAN AND
y institut imeni P. N.	銀 하는 뭐 하는 사람들이 되는 사람이 되는 사람들이 사람들이 되었다. 그는 사람들이 가는 사람들이 가지 않는 것이다.	171/LA

DAYON, MI.I.

USSR/Physics - T-particles

Pub. 22 - 6/40 Card 1/1

Authors

: Alikhonyan, A. I., member correspondent of the Acad. of Scs. of USSR;

Dayon, M.I.; Shostakovich, N. V.; Kirillov-Ugoyumov, V. G. and Deryagin, B.N. Unstable Unirged particles heavier than protons.

Title

Periodical: Dok. AN SSSR 99/3, 361-364, Nov 21, 1954

Abstract

: Four cases of charges particles heavier than protons, observed in Wilson's camera, are described. These particles were designated T-particles and their mass, sign, durations and energy were estimated. They are considered as being particles of a decomposition process at the end of which the in a state of rest. Six references; 2-USSR and 4-Foreign (1953-1954).

Table: illustrations.

Institutions:

Physical Institute of the Acad. of Scs. of the Arm SSR Physical Institute of the Acad. of Scs. of the USSR

Submitted

CIA-RDP86-00513R000309910007-2" APPROVED FOR RELEASE: 06/12/2000

DAYON, M. I.

USSR/Physics - Magnetic experiments

Card 1/2 Pub. 22 - 13/54

Authors

: Dayon, M. 1.

网络科技科内(依例图) Title : Determination of the mass of charged particles by their dispersion and their residual ruin in the plates located inside of a Wilson camera.

Periodical : Dok. AN SSSR 100/3. 453-454. Jan. 21, 1954

Abstract

A method is described for checking the applicability of the practical formula (given below) for determination of the mass mesons and protons with the help of a magnetic spectrometer. The magnetic spectrometer (constructed by Alakhanyan and Alakhanov) was connected with a large rectangular Wilson camera with 7 bress plates. The formula was worked out by Olbert, Annis and Bridge, it stands as follows:

Institution : Acad. of Scs., USSR, P. N. Lebedev Physical Institute

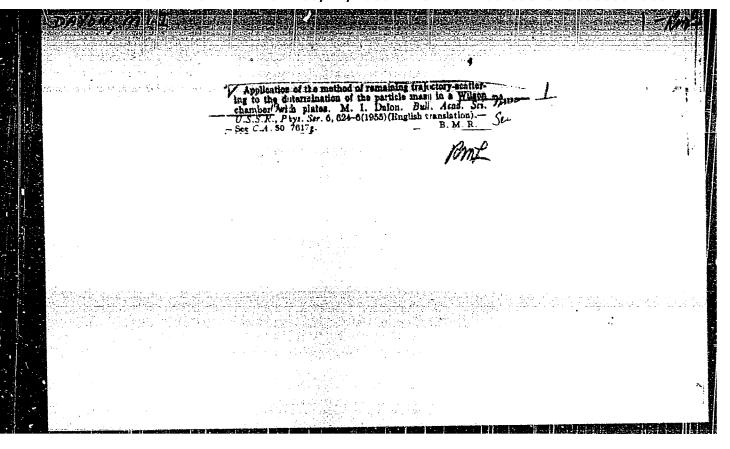
Presented by: Academician A. I. Alikhanov, October 6, 1954

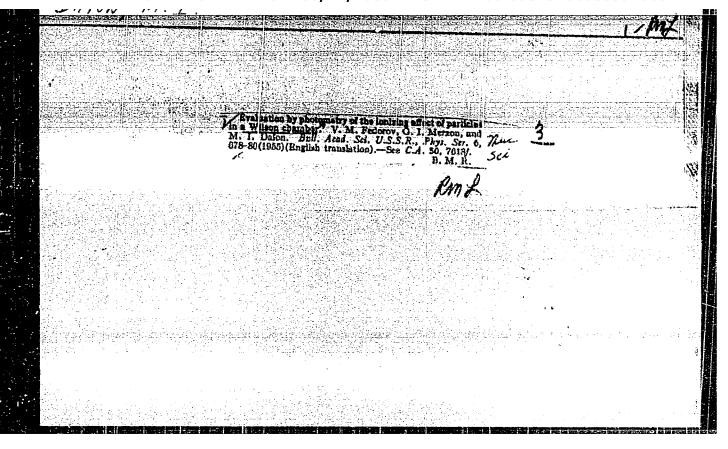
Periodical : Dok. AN SSSR 100/3, 453-454, Jan. 21, 1954

Card 2/2 : Pub. 22 - 13/54

Abstract : $\left[\frac{1}{n}\sum_{i}^{n}\phi_{i}^{2}R_{i}^{2}\right]^{N}=\left[4\pi r_{e}^{2}N\frac{2^{n}}{A}Gt\right]^{N}\left[A_{2}m_{e}C^{2}\right]^{N}\left(\frac{m_{e}}{m}\right)^{2-N}$

Three references: 1 USSR and 2 USA (1952-1953). Graphs.





DAYON, M.I.

Using the residual range--scattering method for determining particle masses in metal-plate cloud chambers. Isv.AN SSSR.Ser.fiz.19 ne.6: 697-699 N-D '55. (NIPA 9:4)

1. Fisicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR. (Cesmic rays) (Muclear physics)

FEDOROV, V.M.; MERZON, G.I.; DAYON, M.I.

Phetemetric method for determining the ionizing capacity of particles in the cloud chamber. Izv. AN SSSR.Ser.fiz.19 no.6:750-752 N-D 155.

(MLRA 9:4)

1. Fizicheskiy institut imeni P.N. Lebedeva Akademii nauk SSSR. (Cosmic rays) (Muclear physics)

DAYON, M.I.; FEDOROV, V.M.

Large rectangular Wilson chamber with bilateral enlargement. Zhur. tekh. fiz. 25 no.5:771-778 My '55. (MIRA 8:7) (Cloud chamber)

DAYON, M. [1.]

"Heavy unstable particles" (Problemy sovremennoi fiziki. no.4, 1955) Reviewed by M.Daion. Usp.fis.nauk 56 no.3:465-467 Jl 155.

(Particles, Elementary) (MIRA 8:10)

DESR/ Physics - Cosmic ray radiation

Card 1/1

Pub. 22 - 10/51

Authors

Dayon, M. I.

Title

On stable particles with masses larger than protons in cosmic radiation at 3,250 miles above sea level

Periodical

Dok, AN SSSR 101/5, 821-823, Apr. 11, 1955

Abstract

Experiments with cosmic ray particles heavier than a proton, observed at an elevation of 3,250 miles above sea level, are described. The experiments were conducted with the help of a magnetic mass spectrometer in which the catching device was replaced with a large rectangular Wilson chamber. The experiments were intended to prove the existance of such particles in cosmic rays. Three USSR references (1952-1953). Diagrams.

Institution : Acai. of Sc., USSR, P. N. Lebedev's Institute of Physics

Presented by : Academician A. I. Alikhanov, Jan. 18, 1955

Dayon, M. I.

INSTRUMENTATION: SPECTROMETERS

"The Alikhanyan-Alikhanov Magnetic Spectrometer in Conjunction With a Large Rectangular Cloud Chamber", by M.I. Dayon, V.M. Fedorov, and G.I. Merzon, and N.V. Shostakovich, Physics Institute imeni P.N. Lebedev, Academy of Sciences USSR, Pribory i Tekhnika Eksperimenta, No 1, January-February 1957, pp 3-10.

Description of a mass spectrometer, constructed in 1953, in which a large cloud chamber with plates replaces the system of counters, separated by absorber layers, previously placed under the poles of the magnet. The first to employ such a combination of a mass spectrometer with a chamber was A.I. Alikhanyan and his associates in 1952. The possibility of a detailed study of the behavior of a particle after it leaves the magnetic field is a distinguishing feature of the new system from all previous variants of mass spectrometers.

Card 1/1

DAYON, M.I.

AUTHOR:

Dayon, M.I.

56-5-16/46

TITLE:

Electron Spectrum at 3200 m Above Sea Level (Spektr elektronov na vysote 3200 m nad urovnem morya)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fisiki, 1957, Vol 33, Nr 5, pp. 1166-1174 (USSR)

ABSTRACT:

For the determination of the electron spectrum resulting from cosmic radiation an "Alikhanyan-Alikhanov" type mass spectrometer was used which was connected with a Wilson chamber. A number of lead plates was in the Wilson chamber. The following may be said about the results obtained:

a) The integral electron spectrum within the energy domain

4.10⁸ \leq E \leq 2.10⁹ eV at 3200 m above sea level can be represented by

 $N(p) = N_0/p 1.55 \pm 0.20$

b) The intensity of the vertical electron current with a momentum $p \gg 4.10^8$ eV/c is equal to 0,41.10⁻³ cm⁻² sterad ⁻¹ s⁻¹. This is about 3% of the μ meson current if the mesons have a momentum of

Card 1/2

'Electron Spectrum at 3200 m Above Sea Level

56-5-16/46

p > 370 MeV/c. c) At momenta p \geqslant 4.10⁸ eV/c the number of the electrons (359 + 19) in all momentum domains is about equal to those of the positron (330 + 18).
d) The experimental data on the penetrability of fast electrons (p ≥4.108 eV/c) are in fairly good agreement with the corresponding computations obtained by Ivanenko on the basis of cascade ourves. There are 4 figures, 6 tables, and 19 references, 6 of which

ASSOCIATION: Physics: Institute imeni P.N.Lebedev AN USSR (Fizioheskiy institut im. P.N. Lebedeva AN SSSR)

SUBMITTED: June 7, 1957

AVAILABLE: Library of Congress

are Slavic.

Card 2/2

DAYON, M. I.

AUTHOR:

Dayon, M.I.

56-5-17/46

TITLE:

Experimental Data on the Cascade Multiplication of Electrons in Lead (Eksperimental'nyye dannyye o kaskadnom razumoz henii elektronov v svintse)

PERIODICAL: Zhurnal Eksperim. i Teoret.Fiziki, 1957, Vol. 33, Nr 5, pp. 1175-1178 (USSR)

ABSTRACT:

By means of a mass spectrometer of the Alikhanyan-Alikhanov type, which was coupled with a multiplate Wilson chamber, cascade multiplications of the electrons were measured. The Wilson chamber contained lead plates of a thickness of 7 mm and was connected with a godoscopic system.

The experimentally found values for the number of secondary electrons in depths of 1.4; 2.8 and 4.2 t-units in Pb are shown in curve representation. The energy of the primary electrons varied

between 200 and 500 MeV.

The experimentally found points at energies of the primary elec-

trons up to \sim 200 MeV agree fairly well with those found

theoretically. With increasing energy experimental data are lower by 25 to 30%. An exact explanation of this discrepancy has not

Card 1/2

Experimental Data on the Cascade Multiplication of Electrons in Lead

yet been found. There are 2 figures, 1 table, and 4 Slavic references.

ASSOCIATION: Physics Institute imeni P.N. Lebedev AN USSR (Fizicheskiy

institut im. P.N.Lebedeva AN SSSR)

SUBMITTED: June 7, 1957

AVAILABLE: Library of Congress

Card 2/2

ARUTYUNYAN, F.R.; DAYON, M.I.; TER-SAAKYAN, A.A.

Determining the mass of charged particles by their scattering and residual run in multiplate Wilson cloud chambers. Iav. AN Arm. SSR. fiz.-mat. nauk ll no.2:71-77 '58. (MIRA 11:6) (Cleud chambers) (Particles, Elementary)

Daiyon, M. I.

M_MESON SPECTRUM AT A DEPTH OF ~ 40M, WATER EQUIVALENT.

MEASUREMENT OF THE MASS OF COSMIC RADIATION PARTICLES BELOW THE SURFACE OF THE EARTH
M. I. Daiyon, L. I. Potapov

The magnetic spectrometer method was used to obtain a momentum spectrum of —mesons at a depth of approximately 40 m. w.e. in the momentum range of 4.108 — 5.10 ev/s.

This spectrum is compared with the Caro spectrum and other spectra measured at sea level.

The mass value for 370 particles stopped in the filter (interval of ranges - 4 cm Pb < R < 16 cm. Pb) determined by momentum and range.

The values obtained agree with the value of the mass of the \mathcal{H} -meson (\mathcal{H} - an \mathcal{H} -mesons are not resolved by the instrument).

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959.

21(1)

sov/56-36-3-8/71

AUTHORS:

Dayon, M. I., Potapov, L. I.

TITLE:

The μ -Meson Spectrum in Underground at a Depth Corresponding to ~ 40 m of Water (Spektr μ mezonov pod zemley na glubine,

ekvivalentnoy \sim 40 m vody)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 3, pp 697-706 (USSR)

ABSTRACT:

The momentum spectra of μ -mesons at sea level and on mountains have already been investigated by a number of authors (Refs 1-6), among others by Alikhanyan and Alikhanov. Underground, the nucleon component is rapidly absorbed and at a depth of 8-10 m the penetrating component consists of muons. It was the aim of the authors to investigate their spectrum in a depth of 40 m equivalent of water. The scheme of the experimental arrangement is shown by figure 1 and is described in short. The data concerning the counters used are clearly given by table 1. Among the total of 12 rows some hundreds of counters were arranged. The radiotechnical part of the system consisted essentially of a coincidence block and a hodoscope of the GK+7 type. The numerous measuring results are shown in tables

Card 1/3

and diagrams. Thus, table 2 gives the obtained o-values at

sov/56-36-3-8/71

The µ-Meson Spectrum in Underground at a Depth Corresponding to~40 m of Water

H = 3300 and 6300 Oe, table 3 shows the values of the light power of the apparatus for n = 1, 2, 3. The spectra constructed in consideration of light power were produced on the basis of the assumption that n = 2. In the momentum range p > 2.109 ev/c the muon spectrum may be approximated by the formula $N(p)dp = N_0 dp/(p + p_0)^{\gamma}$, where $\gamma = 2.78\pm0.23$ and $P_0 = 9.8 \text{ Bev/c}$ (Fig 5). This formula can also be used for the roughly approximated description of the spectrum in the extended range at p \lesssim 2.10 8 ev/c. The spectrum obtained permits the conclusion that the so-called anomalous muon scattering observed in a number of underground investigations can certainly not be caused by an underestimation of the number of slow muons. The authors finally thank A. I. Alikhanyan for his help, advice, and discussions, and V. Kh. Volynskiy and V. Krugovykh for their assistance rendered in the course of the experimental part of the work. They further thank S. N. Vernov, N. L. Grigorov and G. B. Khristiansen for making it possible to carry out work at the podzemnaya laboratoriya Moskovskogo gosudarstvennogo universiteta (Underground Laboratory

Card 2/3

The $\mu\text{-Meson}$ Spectrum in Underground at a Depth Corresponding to 40 m of Water

of Moscow State University). There are 6 figures, 3 tables, and 15 references, 6 of which are Soviet.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR

(Physics Institute imeni P. N. Lebedev of the Academy of Sciences, USSR)

SUBMITTED: July 30, 1958

Card 3/3